



SEQUENCE LISTING

<110> EVANS, MARK J.
HARNISH, DOUGLAS C.

<120> INHIBITORS OF INFLAMMATORY GENE ACTIVITY AND
CHOLESTEROL BIOSYNTHESIS

<130> 36119.159US4

<140> 10/517,695

<141> 2004-12-13

<150> PCT/US03/18651

<151> 2003-06-13

<150> 60/387,915

<151> 2002-06-13

<150> 60/470,188

<151> 2003-05-14

<160> 8

<170> PatentIn Ver. 3.3

<210> 1

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 1

```
gagctggaag tgagagcaga tccctaacca tgagcaccag ccaaccaggg gcctgccccat 60
gccagggagc tgcaagccgc cccgccattc tctacgcact tctgagctcc agcctcaagg 120
ctgtcccccg acccgtagc cgtgcctat gtaggcagca ccggcccgtc cagctatgtg 180
cacctcatcg cacctgccgg gaggccttgg atgttctggc caagacagtg gccttcctca 240
ggaacctgcc atccttctgg cagctgcctc cccaggacca gcggcggtg ctgcagggtt 300
gctggggccc cctcttctctg cttgggttgg cccaagatgc tgtgaccttt gaggtggctg 360
aggccccggg gccagcata ctcaagaaga ttctgctgga ggagcccagc agcagtggag 420
gcagtggcca actgccagac agaccccagc cctccctggc tgcggtgcag tggcttcaat 480
gctgtctgga gtcttcttgg agcctggagc ttagcccca ggaatatgcc tgcctgaaag 540
ggaccatcct cttcaacccc gatgtgccag gcctccaagc cgctcccac attgggcacc 600
tgcagcagga ggctcactgg gtgctgtgtg aagtcctgga accctgggtgc ccagcagccc 660
aaggccgcct gaccctgtgc ctctcacgg cctccaccct caagtccatt ccgaccagcc 720
tgcttgggga cctcttcttt cgccctatca ttggagatgt tgacatcgct ggccttcttg 780
gggacatgct tttgctcagg tgacctgttc cagcccaggc agagatcagg tgggcagagg 840
ctggcagtgc tgattcagcc tggccatccc cagaggtgac ccaatgctcc tggaggggca 900
agcctgtata gacagcactt ggctccttag gaacagctct tcactcagcc acacccaca 960
ttggacttcc ttggtttggg cacagtgtc cagctgcctg ggaggctttt ggtgggtccc 1020
acagcctctg ggccaagact cctgtccctt cttgggatga gaatgaaagc ttaggctgct 1080
tattggacca gaagtctat cgactttata cagaactgaa ttaagttatt gatttttgta 1140
ataaaaggta tgaaacacta aaaaaaaa 1168
```

<210> 2

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2

Met Ser Thr Ser Gln Pro Gly Ala Cys Pro Cys Gln Gly Ala Ala Ser
 1 5 10 15

Arg Pro Ala Ile Leu Tyr Ala Leu Leu Ser Ser Ser Leu Lys Ala Val
 20 25 30

Pro Arg Pro Arg Ser Arg Cys Leu Cys Arg Gln His Arg Pro Val Gln
 35 40 45

Leu Cys Ala Pro His Arg Thr Cys Arg Glu Ala Leu Asp Val Leu Ala
 50 55 60

Lys Thr Val Ala Phe Leu Arg Asn Leu Pro Ser Phe Trp Gln Leu Pro
 65 70 75 80

Pro Gln Asp Gln Arg Arg Leu Leu Gln Gly Cys Trp Gly Pro Leu Phe
 85 90 95

Leu Leu Gly Leu Ala Gln Asp Ala Val Thr Phe Glu Val Ala Glu Ala
 100 105 110

Pro Val Pro Ser Ile Leu Lys Lys Ile Leu Leu Glu Glu Pro Ser Ser
 115 120 125

Ser Gly Gly Ser Gly Gln Leu Pro Asp Arg Pro Gln Pro Ser Leu Ala
 130 135 140

Ala Val Gln Trp Leu Gln Cys Cys Leu Glu Ser Phe Trp Ser Leu Glu
 145 150 155 160

Leu Ser Pro Lys Glu Tyr Ala Cys Leu Lys Gly Thr Ile Leu Phe Asn
 165 170 175

Pro Asp Val Pro Gly Leu Gln Ala Ala Ser His Ile Gly His Leu Gln
 180 185 190

Gln Glu Ala His Trp Val Leu Cys Glu Val Leu Glu Pro Trp Cys Pro
 195 200 205

Ala Ala Gln Gly Arg Leu Thr Arg Val Leu Leu Thr Ala Ser Thr Leu
 210 215 220

Lys Ser Ile Pro Thr Ser Leu Leu Gly Asp Leu Phe Phe Arg Pro Ile
 225 230 235 240

Ile Gly Asp Val Asp Ile Ala Gly Leu Leu Gly Asp Met Leu Leu Leu
 245 250 255

Arg

<210> 3

<211> 2218

<212> DNA

<213> Homo sapiens

<400> 3

```

acgagactct ctctctctcc tcacctcatt gtctccccga cttatcctaa tgcgaaattg 60
gattctgagc atttgtagca aaatcgctgg gatctggaga ggaagactca gtccagaatc 120
ctcccagggc cttgaaagtc catctctgac ccaaaacaat ccaaggaggt agaagacatc 180
gtagaaggag tgaaagaaga aaagaagact tagaaacata gctcaaagtg aacactgctt 240
ctcttagttt cctggatttc ttctggacat ttctcaaga tgaaacttca gacacttttg 300
agtttttttt gaagaccacc ataaagaaag tgcatttcaa ttgaaaaatt tggatgggat 360
caaaaatgaa tctcattgaa cattcccatc tacctaccac agatgaattt tctttttctg 420
aaaattttat tgggtgttta acagaacaag tggcaggtcc tctgggacag aacctggaag 480
tggaaccata ctcgcaatac agcaatgttc agtttcccca agttcaacca cagatttcct 540
cgtcatccta ttattccaac ctgggtttct acccccagca gcctgaagag tggtagtctc 600
ctggaatata tgaactcagg cgtatgccag ctgagactct ctaccaggga gaaactgagg 660
tagcagagat gcctgtaaca aagaagcccc gcatgggagc gtcagcaggg aggatcaaag 720
gggatgagct gtgtgttgtt tgtggagaca gagcctctgg ataccactat aatgcactga 780
cctgtgaggg gtgtaaaggt ttcttcagga gaagcattac caaaaacgct gtgtacaagt 840
gtaaaaacgg gggcaactgt gtgatggata tgtacatgcg aagaaagtgt caagagtgtc 900
gactaaggaa atgcaaagag atgggaatgt tggctgaatg cttgttaact gaaattcagt 960
gtaaatctaa gcgactgaga aaaaatgtga agcagcatgc agatcagacc gtgaatgaag 1020
acagtgaagg tcgtgacttg cgacaagtga cctcgacaac aaagtcatgc agggagaaaa 1080
ctgaactcac ccagatcaa cagactcttc tacattttat tatggattca tataacaaac 1140
agaggatgcc tcaggaaata acaaataaaa ttttaaaaga agaattcagt gcagaagaaa 1200
attttctcat tttgacggaa atggcaacca atcatgtaca ggttcttgta gaattcacia 1260
aaaagctacc aggatttcag actttggacc atgaagacca gattgctttg ctgaaagggg 1320
ctgcggttga agctatgttc cttcgttcag ctgagatttt caataagaaa cttccgtctg 1380
ggcattctga cctattggaa gaaagaattc gaaatagtgg tatctctgat gaatatataa 1440
cacctatgtt tagtttttat aaaagtattg gggaactgaa aatgactcaa gaggagtatg 1500
ctctgcttac agcaattgtt atcctgtctc cagatagaca atacataaag gatagagagg 1560
cagtagagaa gcttcaggag ccacttcttg atgtgtaca aaagttgtgt aagattcacc 1620
agcctgaaaa tctcaacac tttgcctgtc tctgggtcg cctgactgaa ttacggacat 1680
tcaatcatca ccacgctgag atgctgatgt catggagagt aaacgaccac aagtttacc 1740
cacttctctg tgaaatctgg gacgtgcagt gatggggatt acaggggagg ggtctagctc 1800
ctttttctct ctcatattaa tctgatgtat aactttcctt tatttcaact gtaccaggt 1860
tcaactcaaga aatcttgatg aatattttat ttgtaattac atgtgtaact tccacaactg 1920
taaatattgg gctagataga acaactttct ctacattgtg ttttaaaagg ctccagggaa 1980
tctgcattc taattggcaa gccctgtttg cctaattaaa ttgattgtta cttcaattct 2040
atctgttgaa ctagggaaaa tctcattttg ctcatcttac catattgcat atattttatt 2100
aaagagttgt attcaatctt ggcaataaag caaacataat ggcaacagaa aaaaaaaaaa 2160
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2218

```

<210> 4

<211> 472

<212> PRT

<213> Homo sapiens

<400> 4

```

Met Gly Ser Lys Met Asn Leu Ile Glu His Ser His Leu Pro Thr Thr
 1              5              10              15

Asp Glu Phe Ser Phe Ser Glu Asn Leu Phe Gly Val Leu Thr Glu Gln
      20              25              30

Val Ala Gly Pro Leu Gly Gln Asn Leu Glu Val Glu Pro Tyr Ser Gln
      35              40              45

Tyr Ser Asn Val Gln Phe Pro Gln Val Gln Pro Gln Ile Ser Ser Ser
      50              55              60

```

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Tyr | Ser | Asn | Leu | Gly | Phe | Tyr | Pro | Gln | Gln | Pro | Glu | Glu | Trp | 65 | 70 | 75 | 80 |
| Tyr | Ser | Pro | Gly | Ile | Tyr | Glu | Leu | Arg | Arg | Met | Pro | Ala | Glu | Thr | Leu | 85 | 90 | 95 | |
| Tyr | Gln | Gly | Glu | Thr | Glu | Val | Ala | Glu | Met | Pro | Val | Thr | Lys | Lys | Pro | 100 | 105 | 110 | |
| Arg | Met | Gly | Ala | Ser | Ala | Gly | Arg | Ile | Lys | Gly | Asp | Glu | Leu | Cys | Val | 115 | 120 | 125 | |
| Val | Cys | Gly | Asp | Arg | Ala | Ser | Gly | Tyr | His | Tyr | Asn | Ala | Leu | Thr | Cys | 130 | 135 | 140 | |
| Glu | Gly | Cys | Lys | Gly | Phe | Phe | Arg | Arg | Ser | Ile | Thr | Lys | Asn | Ala | Val | 145 | 150 | 155 | 160 |
| Tyr | Lys | Cys | Lys | Asn | Gly | Gly | Asn | Cys | Val | Met | Asp | Met | Tyr | Met | Arg | 165 | 170 | 175 | |
| Arg | Lys | Cys | Gln | Glu | Cys | Arg | Leu | Arg | Lys | Cys | Lys | Glu | Met | Gly | Met | 180 | 185 | 190 | |
| Leu | Ala | Glu | Cys | Leu | Leu | Thr | Glu | Ile | Gln | Cys | Lys | Ser | Lys | Arg | Leu | 195 | 200 | 205 | |
| Arg | Lys | Asn | Val | Lys | Gln | His | Ala | Asp | Gln | Thr | Val | Asn | Glu | Asp | Ser | 210 | 215 | 220 | |
| Glu | Gly | Arg | Asp | Leu | Arg | Gln | Val | Thr | Ser | Thr | Thr | Lys | Ser | Cys | Arg | 225 | 230 | 235 | 240 |
| Glu | Lys | Thr | Glu | Leu | Thr | Pro | Asp | Gln | Gln | Thr | Leu | Leu | His | Phe | Ile | 245 | 250 | 255 | |
| Met | Asp | Ser | Tyr | Asn | Lys | Gln | Arg | Met | Pro | Gln | Glu | Ile | Thr | Asn | Lys | 260 | 265 | 270 | |
| Ile | Leu | Lys | Glu | Glu | Phe | Ser | Ala | Glu | Glu | Asn | Phe | Leu | Ile | Leu | Thr | 275 | 280 | 285 | |
| Glu | Met | Ala | Thr | Asn | His | Val | Gln | Val | Leu | Val | Glu | Phe | Thr | Lys | Lys | 290 | 295 | 300 | |
| Leu | Pro | Gly | Phe | Gln | Thr | Leu | Asp | His | Glu | Asp | Gln | Ile | Ala | Leu | Leu | 305 | 310 | 315 | 320 |
| Lys | Gly | Ser | Ala | Val | Glu | Ala | Met | Phe | Leu | Arg | Ser | Ala | Glu | Ile | Phe | 325 | 330 | 335 | |
| Asn | Lys | Lys | Leu | Pro | Ser | Gly | His | Ser | Asp | Leu | Leu | Glu | Glu | Arg | Ile | 340 | 345 | 350 | |
| Arg | Asn | Ser | Gly | Ile | Ser | Asp | Glu | Tyr | Ile | Thr | Pro | Met | Phe | Ser | Phe | 355 | 360 | 365 | |

Tyr Lys Ser Ile Gly Glu Leu Lys Met Thr Gln Glu Glu Tyr Ala Leu
370 375 380

Leu Thr Ala Ile Val Ile Leu Ser Pro Asp Arg Gln Tyr Ile Lys Asp
385 390 395 400

Arg Glu Ala Val Glu Lys Leu Gln Glu Pro Leu Leu Asp Val Leu Gln
405 410 415

Lys Leu Cys Lys Ile His Gln Pro Glu Asn Pro Gln His Phe Ala Cys
420 425 430

Leu Leu Gly Arg Leu Thr Glu Leu Arg Thr Phe Asn His His His Ala
435 440 445

Glu Met Leu Met Ser Trp Arg Val Asn Asp His Lys Phe Thr Pro Leu
450 455 460

Leu Cys Glu Ile Trp Asp Val Gln
465 470

<210> 5
<211> 738
<212> DNA
<213> Homo sapiens

<400> 5
tctagaggat gcacttatgt agaatactct cttgaggatg ttaggtgagt aacatgttac 60
tatatgtagt aaaatatcta tgattttata aaagcactga aacatgaagc agcagaaatg 120
tttttcccag ttctctttcc tctgaacttg atcacctgtct ctctggcaaa gcacctaaat 180
taattcttct ttaaaagtta acaagaccaa attataagct tgatgaataa ctcatcttta 240
tctttcttta aatgattata gtttatgtat ttattagcta tgcccatctt aaacagggtt 300
atttgttctt ttacacata ccaaactctt aatattagct gttgtcccca ggtccgaatg 360
ttaagtcaac atatatattga gagaacttca acttatcaag tattgcaggt ctctgattgc 420
tttggaaacca cttctgatac ctgtggactt agttcaaggc cagttactac cacttttttt 480
tttctaatag aatgaacaaa tggctaattg tttgctttgt caaccaagct caagttaatg 540
gatctggata ctatgtatat aaaaagccta gcttgagtct cttttcagtg gcatccttcc 600
ctttctaatc agagattttc ttcttcagag attttggcct agatttgcaa aatgatgacc 660
acatctttga tttgggggat tgctatagca gcatgctgtt gtctatggct tattcttggg 720
attaggagaa ggtaagta 738

<210> 6
<211> 839
<212> DNA
<213> Homo sapiens

<400> 6
ccaattcgcc cttggaggta ggagcagaca tgacttcaac aagggtcatgc ccccttggca 60
agcatctttg agaccagaga ggaagacaga ctagggaaag aatgaggaga taagcacggg 120
ctgctgtgag gtccagggga gcaggcaaag gtaagagaaa aggcctttagg atactaacta 180
acatatatgg agcactagca tgagccaggc actattctaa gtgtttttca ggtgttatct 240
ctttttgcct cacggacagc acctacaagg cactgtaatt atccctactt cacagatgag 300
ggagtggagc cacagtgagg ttaacttact tgaccaaggg ggccaagtag gaatggaggc 360
atttgttgag tcttctaaag atgaggaaag agtggaagtg agattttgta agtgcttgat 420
tcatttctac caactgaact ggcaaataaa taaaagcatg agtaaatggg ggtataaata 480
gtctgtcagc tatgggggtg ggagtgggct caaggcaggc ttagagagaa ggtgcaagag 540

```

ctgtctgaaa aggtcagagc aaagcatgaa gctggtgagc agctgtgacc atagctggaa 600
gcttctctct gagctttctc ctgggttacct cctcctcccc tacgtgacca gtcagccaag 660
tgtaagtcc aggggaacat tttgctgctt ccaagtactg tctcactagt gttatttgcc 720
ataacttgcg gccacagggc aaggtccagg tgctcagacc ttacatcct ggactttcca 780
aggcctccca aagctctctg gcacccaggg aacagtgtgc gtgtcgagag agggccggg 839

```

<210> 7

<211> 815

<212> DNA

<213> Homo sapiens

<400> 7

```

ggaggtagga gcagacatga cttcaacaag gtcatgcccc cttggcaagc atctttgaga 60
ccagagagga agacagacta gggaaagaat gaggagataa gcacgggctg ctgtgaggtc 120
caggggagca ggcaaaggta agagaaaagg ctttaggata ctaactaaca tatatggagc 180
actagcatga gccaggcact attctaagtg ctttccagggt gttatctctt tttgcctcac 240
ggacagcacc tacaaggcac tgtaattatc cctacttcac agatgagggg gtggagccac 300
agtgaggtta acttacttga ccaagggggc caagtaggaa tggaggcatt tgttgagtct 360
tctaaagatg aggaaagagt ggaagtgaga ttttgtaagt gcttgattca tttctaccaa 420
ctgaactggc aaataaataa aagcatgagt aaatgggggt ataaatagtc tgtcagctat 480
ggggggtggg gtgggctcaa ggcaggctta gagagaaggt gcaagagctg tctgaaaagg 540
tcagagcaaa gcatgaagct ggtgagcagc tgtgaccata gctggaagct tctctctgag 600
ctttctcctg gttacctcct cctcccctac gtgaccagtc agccaagtg taagtccagg 660
ggaacatttt gctgcttcca agtactgtct cactagtgtt atttgccata acttgccggc 720
acagggcaag gtccagggtgc tcagaccttt acatcctgga ctttccaagg cctcccaaag 780
ctctctggca cccagggaac agtgtgcgtg tcgag 815

```

<210> 8

<211> 1399

<212> DNA

<213> Homo sapiens

<400> 8

```

cacaagctct gagaatctca ggctctggct gtgcaattgg gccagtgggt ccagggaaac 60
aaacaaggac tttggagtca ggcaagatct gggctttgtc ttcttggtgg gatgaccttg 120
ggcaagtcac tttagctttt ttagtctcat aaagtaagaa tctagcctta ggaagaggct 180
gccaatatta gagtgggaag tgcctgacac ataataagtg cttagagaat ggcaaccata 240
tatatacata tatatatata tatatgtatg tatgtatgtg tatatatata tacacatata 300
catataaata tacatatata tatacatata catatacata tatatttttt tgagacagga 360
tcttgctctg ttgcccaggc tggagagcag tggcatgata tcagctcact gtaacctctg 420
cctcccagtt tctagtgatt cttttgcctt agcctctaga gtagctggga ctacaggcac 480
atgccaccat gcccggtctaa tttttgtatt ttagtagag acgggatttt gccatgttgg 540
ccaggctggc cttgaactcc tgacctcaaa tgatccccct tctcagcct cccaaagtgc 600
tgggattaca ggcattgagcc accgtgcccg gctggcaact atctttttatt ataattctgt 660
gagttcttct cagcagacct ggcctttcag gagtggtagg aatcaggctg gggataagga 720
ttctgaagga ccttattcct gcagggggcc cagaactgga atcagaggag gaggcctcct 780
agattggaca gtgggcaaaag tcctcccagc ccccagggtc ctgggtccct tccctgtagc 840
ctgcttctgg ctgacaacag aagcagggcc ccaagggttag gcaaacaagc tagtgataag 900
gcacttccag gttgggcctt gcattcaagg cccaccagc tctggggctg gcttctctggc 960
ttagcaaaaag ccctagtctt ttgtgcacac aagagcgggc accaatgggg acacctgctg 1020
attgtgcacc tggggccttg gtgccctggg acagcctgag ttaatgacct tgtttatcca 1080
cttgagtcac ctgataaggg gcagctgagt gagcggcagg tggccctgtg ccttgccacc 1140
gccacttcat tgactgaggt gatatcagtg ccacgtgggg ttcccaatgc cccctcccc 1200
accacttccc caccattcct gccaggggca atgtctgtgt gtttttttca atgaacatga 1260
cttctggagt caagggtgtt gggccattcc ccccgttcca ctactggga atataaatag 1320
caccacagc gcagaacaca gagccagaga gctggaagtg agagcagatc cctaaccatg 1380

```

agcaccagcc aaccagggg

1399